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OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			RILEY, MARCUS T	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

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## **DETAILED ACTION**

### **Response to Amendment**

1. This office action is responsive to applicant's remarks received on December 08, 2009. Claims 1-39 remain pending.

### **Response to Arguments**

2. Applicant's arguments with respect to amended claim 1, filed on December 08, 2009 have been fully considered but they are not persuasive.

### **A: Applicant's Remarks**

For Applicant's remarks see "*Applicant Arguments/Remarks Made in an Amendment*" filed December 08, 2009.

### **A: Examiner's Response**

Applicant's argues that the cited references fail to disclose wherein the image forming device comprises: a receiving unit that: receives a print request from the external device, the print request including printing data to be printed in accordance with the print request, and after reception of the printing data has begun, receives an editing request from the external device to edit the printing data; and a controller that: initiates an editing mode of the image forming device which enables editing of the printing data previously stored in the memory of the image forming device in response to the received editing request, the print request not being edited by the editing of the printing data, and performs data processing for providing image data from the printing data stored in the memory, as recited in claim 1 and similarly in claims 15, 29 and 36

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Examiner understands applicant arguments but respectfully disagree. Kurozasa '546 discloses a receiving unit that: receives a print request from the external device at column 6, lines 1-7. Kurozasa '546 specifically states that the Digital Copying Machine 1 of Fig 1 is connected to the printer server PS and receives a number of print requests from the client computers CC1 to CC4 via PS. Kurozasa '546 also discloses where the print request includes the printing data to be printed in accordance with the print request at column 6, lines 1-7. The digital copying machine 1 receives a number of print requests (print jobs and copying jobs), stores the received job data, and sequentially print-outputs the data in the received order.

Nakajima '620 at Column 6, line 56 thru column 7, line 39 and Step S101-S111 discloses wherein after reception of the printing data has begun, receives an editing request from the external device to edit the printing data. Specifically, Fig. 1 shows the Host Computer 1 and Fig. 9, Step S105 edits the print data. Nakajima '620 at Fig. 2, discloses a Data Edit Controller 15 that: initiates an editing mode of the image forming device which enables editing of the printing data at Fig. 9, Step S105 previously stored in the memory, Fig. 9, Step S104, of the image forming device in response to the received editing request, the print request not being edited by the editing of the printing data, and performs data processing for providing image data from the printing data stored in the memory. For example, referring to Fig. 9, when a print request is input from the AP or the like at Step S101, the print controller 11 of Fig. 2, converts a data which is an object of printing into a print control code of a structure which can be read by the printing device 2. The spooler 12 stores the print control code into the spool file 13 at Step S104 and an edit instruction is input at Step S105 and edited at Step S107. Thus, the cited references do not fail to

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disclose the Applicant's claimed invention. As a result, Applicant's application is not in condition for allowance.

**Claim Rejections - 35 USC § 103**

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1-39** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurozasa et al. (US 6,614,546 hereinafter, Kurozasa '546) in combination with Nakajima et al. (US 7,305,620 hereinafter, Nakajima '620).

**Regarding claim 1;** Kurozasa '546 discloses an image forming device (Fig. 1, Digital Copying Machine 1) connected to an external device (Fig. 1 Client Computers CC1-CC4), the image forming device comprising:

a receiving unit that: receives a print request from the external device (i.e. The Digital Copying Machine 1 of Fig 1 is connected to the printer server PS and receives a number of print requests from the client computers CC1 to CC4 via PS. Column 6, lines 3-7);

the print request including printing data to be printed in accordance with the a print request and (i.e. The digital copying machine 1 receives a number of print requests (print jobs and copying jobs), stores the received job data, and sequentially print-outputs the data in the received order. Column 6, lines 1-7);

a memory (Fig. 3, Memory "M") that stores the printing data (i.e. Column 6, lines 3-7);

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performs data processing for providing image data from the printing data stored in the memory (i.e. The digital copying machine 1 receives a number of print requests (print jobs and copying jobs), stores the received job data, and sequentially print-outputs the data in the received order. Column 6, lines 1-7);

a printing mechanism (Fig. 3, PRT) that provides printed output of the image data output by the controller (i.e. The digital copying machine 1 has a function to print-output image information received from the client computers CC1 to CC4 via the printer server PS. Column 3, lines 60-65 and Column 4, lines 7-21).

wherein the external device (Fig. 4, CC1 to CC4) controls the editing (Fig. 4, Document Forming/Editing 102) of the printing data (i.e. The user uses Document Forming/Editing 102 and the document-forming application program 101 which operates on the client computers CC1 to CC4 to edit an document. See also Column 6, lines 12-14).

Kurozasa '546 does not expressly disclose where after reception of the printing data has begun, receives an editing request from the external device to edit the printing data; a controller that: initiates an editing mode of the image forming device which enables editing of the printing data previously stored in the memory of the image forming device in response to the received editing request the print request not being edited by the editing of the printing data; editing of the printing data not including editing of a printing sequence of print requests received by the image forming device.

Nakajima '620 discloses after reception of the printing data has begun, receives an editing request from the external device (Fig. 1, Host Computer 1) to edit the printing data (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39);

a controller (Fig. 2, Data Edit Controller 15) that: initiates an editing mode of the image forming device (Fig. 1, Printer 2) which enables editing of the printing data (Fig. 9, Step S105) previously stored in the memory (Fig. 9, Step S104) of the image forming device in response to the received editing request the print request not being edited by the editing of the printing data the editing of the

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printing data not including editing of a printing sequence of print requests received by the image forming device (Fig. 9, Steps S101-S111. i.e. See column 6, line 56 thru column 7, line 39);

Kurozasa '546 and Nakajima '620 are combinable because they are from same field of endeavor of printer systems (Nakajima '620 at "Field of Invention").

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer system as taught by Kurozasa '546 by adding editing of the printing data as taught by Nakajima '620. The motivation for doing so would have been because it is advantageous to provide an image editing system capable of highly efficient editing of print data if a user makes a mistake. Therefore, it would have been obvious to combine Kurozasa '546 with Nakajima '620 to obtain the invention as specified in claim 1.

**Regarding claim 2;** Kurozasa '546 does not expressly disclose wherein the controller starts the data processing of the printing data after an editing-allowable state of the printing data has been completed.

Nakajima '620 discloses wherein the controller starts the data processing of the printing data after an editing-allowable state of the printing data has been completed (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39).

Kurozasa '546 and Nakajima '620 are combinable because they are from same field of endeavor of image forming systems (Nakajima '620 at "Field of Invention").

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer system as taught by Kurozasa '546 by adding a controller that starts the data processing of the printing data after an editing-allowable state of the printing data has been completed as taught by Nakajima '620. The motivation for doing so would have been

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because it is advantageous to provide an image editing system capable of highly efficient editing of print data if a user makes a mistake after the printing data has been completed. Therefore, it would have been obvious to combine Kurozasa '546 with Nakajima '620 to obtain the invention as specified in claim 1.

**Regarding claim 3;** Nakajima '620 discloses wherein the controller starts processing of subsequent printing data when the printing data next in order is in the editing-allowable state (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39).

**Regarding claim 4** Nakajima '620 discloses wherein the processing of the printing data in the editing-allowable state is started when the editing of the printing data is completed and the processing of the subsequent printing data is completed (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39).

**Regarding claim 5;** Nakajima '620 discloses wherein the printing data is stored in the memory after the printed output is provided (i.e. Fig. 2 shows where the spooler 12 temporarily stores a print control code which is output from the print controller 11, into the spool file 13. Column 4, lines 58-60).

**Regarding claim 6;** Nakajima '620 discloses wherein the controller also transmits the printing data stored in the memory to the information processor (See Fig. 2 the spooler 12 temporarily stores a print control code which is output from the print controller 11, into the spool file 13. The despooler 17 reads out the data stored in the spool file 13 and then outputs the read out data (the spool process). The data output from the despooler 17 is transmitted to the printing device 2 through transfer controlling means which is not shown. Column 4, lines 58-64).

**Regarding claim 7;** Nakajima '620 discloses wherein the controller starts the data processing after the printing data is entirely received by the image forming device (Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39).

**Regarding claim 8;** Claim 8 contains substantially similar features as that of claim 7. Thus, claim 8 is rejected on the same grounds as claim 7.



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**Regarding claim 9;** Nakajima '620 discloses wherein the controller enables editing of the printing data if the printing data satisfies a predetermined condition (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 3);

**Regarding claim 10;** Claim 10 contains substantially similar features as that of claim 9. Thus, claim 10 is rejected on the same grounds as claim 9.

**Regarding claims 15 & 29;** Claims 15 & 29 contain substantially similar features as that of claim 1. Thus, claims 15 & 29 are rejected on the same ground as claim 1.

**Regarding claim 16;** Claim 16 contains substantially similar features as that of claim 2. Thus, claim 16 is rejected on the same grounds as claim 2.

**Regarding claim 17 & 30;** Claims 17 & 30 contain substantially similar features as that of claim 3. Thus, claim 17 & 30 are rejected on the same grounds as claim 3.

**Regarding claim 18 & 31;** Claims 18 & 31 contain substantially similar features as that of claim 4. Thus, claims 18 & 31 are rejected on the same grounds as claim 4.

**Regarding claim 19 & 32;** Claims 19 & 32 contain substantially similar features as that of claim 5. Thus, claims 19 & 32 are rejected on the same grounds as claim 5.

**Regarding claim 20 & 33;** Claims 20 & 33 contain substantially similar features as that of claim 6. Thus, claims 20 & 33 are rejected on the same grounds as claim 6.

**Regarding claim 21;** Claim 21 contains substantially similar features as that of claim 7. Thus, claim 21 is rejected on the same grounds as claim 7.

**Regarding claim 22;** Claim 22 contains substantially similar features as that of claim 8. Thus, claim 22 is rejected on the same grounds as claim 8.

**Regarding claim 23 & 34;** Claims 23 & 34 contain substantially similar features as that of claim 9. Thus, claims 23 & 34 are rejected on the same grounds as claim 9.

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**Regarding claim 24;** Claim 24 contains substantially similar features as that of claim 10.

Thus, claim 24 is rejected on the same grounds as claim 10.

**Regarding claim 36;** Kurozasa '546 discloses a printing device (Fig. 1, #1) connected to a host device (Fig. 1, Print Server and Client Computers CC1-CC4), the image forming device comprising:

a receiving part that receives printing data from the host device (See Fig 1 where the digital copying machine 1 is connected to the printer server PS and receives a number of print requests from the client computers CC1 to CC4 via PS. Column 6, lines 3-7);

the printing data to be printed in accordance with a print request received from the host device (The digital copying machine 1 receives a number of print requests (print jobs and copying jobs), stores the received job data, and sequentially print-outputs the data in the received order. Column 6, lines 1-7);

a memory that stores the printing data received by the receiving part (Fig. 3, Memory "M", See also Column 6, lines 3-7);

a printing controller (Fig. 3, "CTRL") that controls the printing data stored in the memory so as to print the printing data according to a predetermined sequence (The digital copying machine 1 receives a number of print requests (print jobs and copying jobs), stores the received job data, and sequentially print-outputs the data in the received order. Column 6, lines 1-7);

wherein the external device (Fig. 4, CC1 to CC4) controls the editing of the printing data the editing of the printing data not including editing of a printing sequence of print requests received by the image forming device (See Fig. 4, #102, Document Forming/Editing, Here, the user uses the document-forming application program #101 which operates on the client computers CC1 to CC4 to edit an document. See also Column 6, lines 12-14).

Kurozasa '546 does not expressly disclose an editing part that sets the printing data stored in the memory to an editing-allowable state according to an editing request from the host device, the print request not being edited when the printing data is set to the editing-allowable state;

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wherein the printing controller temporarily stops processing of the printing data depending on the editing request for the printing data from the host device; cancels the temporary stop condition if the editing is completed when a printing order for the printing data arrives so as to perform the printing processing of the printing data after the editing of the printing data; and cancels the temporary stop condition at a predetermined timing after the end of the editing if the editing is not completed when the printing order of the printing data arrives so as to perform the printing processing of the printing data after the editing of the printing data.

Nakajima '620 discloses an editing part (Fig. 9, Steps S105 & S107) that sets the printing data stored in the memory to an editing-allowable state according to an editing request from the host device, the print request not being edited when the printing data is set to the editing-allowable state (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39);

wherein the printing controller temporarily stops processing of the printing data depending on the editing request for the printing data from the host device (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39);

cancels the temporary stop condition if the editing is completed when a printing order for the printing data arrives so as to perform the printing processing of the printing data after the editing of the printing data (See Fig. 10, Steps S201-S210. See column 7, lines 4-24 and see column 5, lines 53-60);

and cancels the temporary stop condition at a predetermined timing after the end of the editing if the editing is not completed when the printing order of the printing data arrives so as to perform the printing processing of the printing data after the editing of the printing data (See Fig. 10, Steps S201-S210. See column 7, lines 4-24 and see column 5, lines 53-60);

Kurozasa '546 and Nakajima '620 are combinable because they are from same field of endeavor of image forming systems printer systems (Nakajima '620 at "Field of Invention").

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At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer system as taught by Kurozasa '546 by adding an editing part and a controller to temporarily stops processing as taught by Nakajima '620. The motivation for doing so would have been because it is advantageous to provide an image editing system capable of highly efficient editing of print data if a user makes a mistake. Therefore, it would have been obvious to combine Kurozasa '546 with Nakajima '620 to obtain the invention as specified in claim 36.

**Regarding claim 11;** Nakajima '620 discloses wherein the controller enables editing of the printing data when an information processor which has transmitted the printing data is identical to an information processor which requests the editing of the printing data (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39).

**Regarding claim 12;** Claim 12 contains substantially similar features as that of claim 11. Thus, claim 12 is rejected on the same grounds as claim 11.

**Regarding claim 13;** Nakajima '620 discloses wherein the controller enables the editing of the printing data when user information added to the printing data is identical to user information input by a user who requests editing (See Fig. 9, Steps S101-S111. See column 6, line 56 thru column 7, line 39).

**Regarding claim 14;** Claim 14 contains substantially similar features as that of claim 13. Thus, claim 14 is rejected on the same grounds as claim 13.

**Regarding claim 25 & 35;** Claims 25 & 35 contains substantially similar features as that of claim 11. Thus, claim 25 & 35 are rejected on the same grounds as claim 11.

**Regarding claim 26;** Claim 26 contains substantially similar features as that of claim 12. Thus, claim 26 is rejected on the same grounds as claim 12.

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**Regarding claim 27;** Claim 27 contains substantially similar features as that of claim 13. Thus, claim 27 is rejected on the same grounds as claim 13.

**Regarding claim 28;** Claim 28 contains substantially similar features as that of claim 14. Thus, claim 28 is rejected on the same grounds as claim 14.

**Regarding claim 37;** Nakajima '620 discloses wherein the printing data is sent back to the external device for editing by the external device (See Fig. 9, Steps S101-S111 & Fig. 10, Steps S201-S210, See column 6, line 56 thru column 7, line 61).

**Regarding claim 38;** Nakajima '620 discloses wherein the printing data to be edited is replaced by edited printing data that was edited by the external device (See Fig. 9, Steps S101-S111 & Fig. 10, Steps S201-S210, See column 6, line 56 thru column 7, line 61).

**Regarding claim 39;** Nakajima '620 discloses wherein the controller enables editing of a received portion of the printing data while a remaining portion of the printing data is still being received (See Fig. 9, Steps S101-S111 & Fig. 10, Steps S201-S210, See column 6, line 56 thru column 7, line 61).

### **Conclusion**

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCUS T. RILEY whose telephone number is (571)270-1581. The examiner can normally be reached on Monday - Friday, 7:30-5:00, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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